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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,944	03/26/2004	Edward D. Glas	MS307029.01 / MSFTP637US	9894
27195 7590 02/25/2008 AMIN. TUROCY & CALVIN, LLP 24TH FLOOR, NATIONAL CITY CENTER 1900 EAST NINTH STREET CLEVELAND, OH 44114			EXAMINER HUYNH, PHUONG	
			ART UNIT 2857	PAPER NUMBER
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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<b>Office Action Summary</b>	<b>Application No.</b> 10/810,944	<b>Applicant(s)</b> GLAS ET AL.	
	<b>Examiner</b> PHUONG HUYNH	<b>Art Unit</b> 2857	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on November 21, 2007.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-9 and 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al. hereinafter "Chen") (US Patent No. 5,812,780) in view of Bernardin et al. (hereinafter "Bernardin") (US Patent Application Pub. No. 2003/0191795).

Regarding claim 1, Chen discloses a system that test loads a server [Figs 3A and 3B] comprising:  
a plurality of simulated users [simulated clients 40] utilized to test load a server [see Chen: col. 8, lines 51-65]; and

a dynamic load adjustor component that dynamically adjusts at least one characteristic of at least one of the simulated user, for distribution thereof as a percentage of total requests sent to the server being load tested [see Chen: col. 8, lines 1-67; and col. 9, lines 1-14; also see Figures 4 and 5 and col. 9, lines 15-40 and lines 57-67; col. 10, lines 1-18; col. 12, lines 47-67; col. 13, lines 1-3; col. 14, lines 58-65; and col. 16, lines 19-50].

Chen does not disclose that "[at least one characteristics of at least one of the simulated users] is adjusted **based at least in part on a browser type.**"

Bernardin et al. (hereinafter "Bernardin") (US Patent Application Pub. No. 2003/0191795) teaches "[the user characteristics is adjusted **based at least in part on a browser type**" [see Bernardin: Paragraphs [0077], [0287], [0326], [0352], and [0361]].

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It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to modify the invention of Chen to include the adjustment that is based at least in part on a browser type, as taught by Bernardin, to allow the administrator to monitor and manage the server with increasing secured network, and increased convenience to authorized users from any compatible browser [see Bernardin: Paragraphs [0077], [0287], [0326], [0352], and [0361]].

Regarding claim 2, Chen and Bernadin disclose everything as applied above (see claim 1). In addition, Chen discloses a profile characteristic data store [common client profile 38 in col. 8, lines 51-65; and/or simulation file 84 in Fig. 7; col. 10, lines 66-67 and col. 11, lines 1-11; also see abstract, lines 25-27] that supplies the dynamic load adjustor component with weighting for a characteristic defined in a user profile.

Regarding claim 3, Chen and Bernadin disclose everything as applied above (see claim 1). In addition, Chen discloses the dynamic load adjustor component further comprises a weighting designator that randomly assigns to users characteristics based on weightings defined in the user profile [see Chen: Abstract, lines 9-27].

Regarding claim 4, Chen and Bernadin disclose everything as applied above (see claim 1). In addition, Chen discloses the characteristic comprises at least one of: network connections, browser types, and load patterns [see Chen: col. 11, lines 42-46; and col. 14, lines 56-65].

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Regarding claim 5, Chen and Bernadin disclose everything as applied above (see claim 1). In addition, Chen discloses the characteristic statistically determined based on web log records [log file 108 in Fig. 7] [also see Chen: Abstract, lines 20-27].

Regarding claim 6, Chen and Bernadin disclose everything as applied above (see claim 1). In addition, Chen discloses the characteristic predetermined in a single user profile [see Chen: col. 3, lines 60-63; and col. 4, lines 1-9 and lines 21-31].

Regarding claim 7, Chen and Bernadin disclose everything as applied above (see claim 1). In addition, Chen discloses a load coordinator component that adjusts an intensity of a load test based on a current distribution of simulated users entering and leaving the server relative to a desired test load [see Chen: col. 14, lines 50-56].

Regarding claim 8, Chen and Bernadin disclose everything as applied above (see claim 1). In addition, Chen discloses artificial intelligence component [see Chen: col. 3, lines 1-20].

Regarding claim 9, Chen and Bernadin disclose everything as applied above (see claim 1). In addition, Chen discloses closed loop control to enable a continual and sustained rate of requests to the server [see col. 12, lines 56-67; and col. 13, lines 1-21].

Regarding claim 16, Chen discloses a computer-implemented method for load testing a server comprising:

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assigning weights to user characteristics in a user profile [see Chen: col. 16, lines 19-39];  
dynamically adjusting the user characteristics during the testing of the server [see Chen: col. 8, lines 1-67; and col. 9, lines 1-14; also see Figures 4 and 5 and col. 9, lines 15-40 and lines 57-67; col. 10, lines 1-18; col. 12, lines 47-67; col. 13, lines 1-3; col. 14, lines 58-65; and col. 16, lines 19-50]; and  
distributing the user characteristics as a percentage of total simulated user requests sent to the server [see Chen: col. 11, lines 1-11, lines 38-53; col. 13, lines 1-3; col. 12, lines 46-55; and col. 16, lines 19-50].

Chen does not disclose that “[the user characteristics is adjusted] **based on one or more browser types**.”

Bernardin et al. (hereinafter “Bernardin”) (US Patent Application Pub. No. 2003/0191795) teaches “[the user characteristics is adjusted] **based at least in part on one or more browser type**” [see Bernardin: Paragraphs [0077], [0287], [0326], [0352], and [0361]].

It would have been obvious to one of ordinary skill in the art at the time of Applicant’s invention to modify the invention of Chen to include the adjustment that is based at least in part on a browser type, as taught by Bernardin, to allow the administrator to monitor and manage the server with increasing secured network, and increased convenience to authorized users from any compatible browser [see Bernardin: Paragraphs [0077], [0287], [0326], [0352], and [0361]].

Regarding claim 17, Chen and Bernadin disclose everything as applied above (see claim 16). In addition, Chen discloses comparing a current load on the server with a desired load [see Chen: Abstract, lines 27-29; col. 7, lines 22-40].

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Regarding claim 18, Chen and Bernadin disclose everything as applied above (see claim 16). In addition, Chen discloses creating a new user if the current load falls below a desired load [see Chen: Abstract, lines 27-29; col. 7, lines 22-40; and col.16, lines 39-49]. Although Chen does not explicitly disclose a comparison between the current load and a desired load, “the weighted average response time can then be used as a threshold value to determine the total number of users a server application can adequately support” reads on the claimed “comparing a current load on the server with a desired load.”

Regarding claim 19, Chen and Bernadin disclose everything as applied above (see claim 16). In addition, Chen and Bernadin disclose everything as applied above (see claim 16). In addition, Chen discloses reducing the current load by one upon ending iteration, if the current load rises above the desired load [see Chen: Abstract, lines 27-29; col. 7, lines 22-40; and col.16, lines 39-49].

As mentioned in Chen, in Abstract, lines 27-29; col. 7, lines 22-40; and col.16, lines 39-49, that the weighted average response time can then be used as a threshold value to determine the total number of users a server application can adequately support.

Chen et al. further discloses that “network administrator may make graphs of the weighted average response time of different client loads for an Exchange server to aid in determining when another Exchange server should be added to the network.”

Although Chen et al. does not explicitly disclose that when the current load falls below a desired load, a new user is created, and only disclose a new Exchange server is added to the network as mentioned iteration above, the description above reads on the claimed “creating new user when current load falls below a desired load.”

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Regarding claim 20, Chen and Bernadin disclose everything as applied above (see claim 16). In addition, Chen discloses controlling a rate of loading via a feedback loop control [see Chen: in col. 13, lines 3-21].

As mentioned in Chen et al., in col. 13, lines 3-21, that “another safety mechanism to prevent message explosion caused by positive feedback loop is implemented called automatic message generation damping. A LoadSim client will track how many times a given message has been forwarded or replied and diminish, by a damping factor... for each successive iteration with the damping factor having increasing impact until eventually extinguishing any possibility of reply or forward.” Therefore, the automatic message generation damping reads on the claimed “feedback loop control.”

2. Claims 10-15, and 21 are rejected under 35 U.S.C. 103(a) as being anticipated by Malmskog (US Patent No. 6,721,686) in view of Bernardin et al. (hereinafter “Bernardin”) (US Patent Application Pub. No. 2003/0191795).

Regarding claim 10, Malmskog discloses a system that stress a server, comprising:  
an execution engine [testing tool application 22] that generates a scenario that loads the server via a plurality of simulated users [15], the plurality of simulated users is dynamically adjusted based on predetermined weightings of a user profile related to at least one of the simulated users having weighted characteristics, wherein the scenario distributes user characteristics as a percentage of total requests [see Malmskog et al.: col. 2, lines 47-55; col. 3, lines 56-67, col. 4, lines 1-17 and lines 48-67; col. 5, lines 1-18; col. 6, lines 1-48, and 58-67 ; and col. 7, lines 7-16; col. 8, also see Figures 5-7].



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Malmskog does not disclose that “weighted characteristics that comprises at least a browser type”.

Bernardin (US Patent Application Pub. No. 2003/0191795) teaches that “weighted characteristics comprises at least a browser type” [see Bernardin: Paragraphs [0077], [0287], [0326], [0352], and [0361]].

It would have been obvious to one of ordinary skill in the art at the time of Applicant’s invention to modify the invention of Malmskog to include the adjustment that is based at least in part on a browser type, as taught by Bernardin, to allow the administrator to monitor and manage the server with increasing secured network, and increased convenience to authorized users from any compatible browser [see Bernardin: Paragraphs [0077], [0287], [0326], [0352], and [0361]].

Regarding claim 11, Malmskog and Bernadin disclose everything as applied above (see claim 10). In addition, Malmskog discloses the scenario comprises at least of a test mix and a load profile [see Malmskog et al.: col. 6, lines 61-67].

Regarding claim 12, Malmskog and Bernadin disclose everything as applied above (see claim 10). In addition, Malmskog discloses a control input that adjusts rate of requests loaded onto the server [operating system 24 along with K-Queue and filter] [see Malmskog et al.: col. 4, lines 31-47, and col. 3, lines 37-43].

Regarding claim 13, Malmskog and Bernadin disclose everything as applied above (see claim 10). In addition, Malmskog discloses a queuing mechanism [K-Queue] that retrieves and sorts requests to be sent to the server [see Malmskog et al.: col. 3, lines 7-43].

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Regarding claim 14, Malmskog and Bernadin disclose everything as applied above (see claim 10). In addition, Malmskog discloses a scheduler [traffic shaper 24b and delay parameter 44] that determines number of requests to be generated for an upcoming period [see Malmskog et al.: col. 5, lines 31-39].

Regarding claim 15, Malmskog and Bernadin disclose everything as applied above (see claim 10). In addition, Malmskog discloses the requests sorted according to time function for execution [TCP/IP routines] [see Malmskog et al.: Figure 5].

Regarding claim 21, Malmskog discloses the system for test loading a server comprising:

means for dynamically adjusting characteristics of a simulated user [15] while loading the server [network device 20] [see Malmskog et al.: col. 2, lines 55-65 and col. 3, lines 1-6]; and

means for distributing the simulated user characteristics as a percentage of total requests sent to the server [scenario configuration interface] [see Malmskog et al.: Figure 7].

Malmskog does not disclose that “weighted characteristics that comprises at least a browser type”.

Bernardin teaches that “each user characteristic including at least a browser type” [see Bernadin: Paragraphs [0077], [0287], [0326], [0352], and [0361]].

It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to modify the invention of Malmskog, to include the adjustment that is based at least in part on a browser type, as taught by Bernadin, to allow the administrator to monitor and manage the server with increasing

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secured network, and increased convenience to authorized users from any compatible browser [see Bernardin: Paragraphs [0077], [0287], [0326], [0352], and [0361]].

### ***Response to Arguments***

3. Applicant's arguments filed November 21, 2007 have been fully considered but they are not persuasive.

Regarding amended claims 1 and 16, Applicants argues that Bernardin does not disclose any browser type or “dynamically **adjusting simulated user characteristics based on a browser type of a simulated user**” [see Applicants' Remarks: Page 5 and 6, and Page 7, lines 7-9].

Note that the amended claim 1 recited "dynamically **adjusts at least one characteristic of at least one of the simulated users based at least in part on a browser type**" (emphasis added).

Accordingly, a dynamic load adjustor component that dynamically adjusts at least one characteristic of at least one of the simulated user, for distribution thereof as a percentage of total requests sent to the server being load tested [see Chen: col. 8, lines 1-67; and col. 9, lines 1-14; also see Figures 4 and 5 and col. 9, lines 15-40 and lines 57-67; col. 10, lines 1-18; col. 12, lines 47-67; col. 13, lines 1-3; col. 14, lines 58-65; and col. 16, lines 19-50].

Chen does not disclose that “[at least one characteristics of at least one of the simulated users] is adjusted **based at least in part on a browser type.**”

Bernardin et al. (hereinafter “Bernardin”) (US Patent Application Pub. No. 2003/0191795) teaches “[the user characteristics is adjusted **based at least in part on a browser type**” [see Bernardin: Paragraphs [0077], [0287], [0326], [0352], and [0361]].

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It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to modify the invention of Chen to include the adjustment that is based at least in part on a browser type, as taught by Bernardin, to allow the administrator to monitor and manage the server with increasing secured network, and increased convenience to authorized users from any compatible browser [see Bernardin: Paragraphs [0077], [0287], [0326], [0352], and [0361]].

Regarding claims 10-15 and 21, Applicants argue that Bernardin does not disclose any browser type [see Applicants' Remarks: Pages 7 and 8].

Accordingly, Bernardin disclose any browser type [see Bernardin: Paragraphs [0077], [0287], [0326], [0352], and [0361]].

### ***Conclusion***

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUONG HUYNH whose telephone number is (571)272-2718. The examiner can normally be reached on M-F: 8:30 AM - 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eliseo Ramos-Feliciano can be reached on 571-272-7925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phuong Huynh  
Examiner  
Art Unit 2857

/PH/  
February 05, 2008

/Eliseo Ramos-Feliciano/  
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